Report to the Oakland University Board of Trustees

Formal Meeting – Monday, February 15, 2021

Ora Hirsch Pescovitz, M.D.
President

Agenda

OAKLAND UNIVERSITY ™

I. **Grizzlies Protect Grizzlies: Healthy Together – How are we doing?**

II. **Points of OU Pride**

III. **Highlights and Vision for the Future**

> Louay Chamra, Dean, OU School of Engineering and Computer Science

IV. **Advancement Update**

> Michael Westfall, Vice President of Advancement

Grizzlies Protect Grizzlies

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Healthy Together

- **Effectiveness of 4Ws compliance**
  - Wear a mask, Watch your distance, Wash your hands, Wear a BioButton
- **Positivity rate:**   **1.5%**   (17 out of 1,134)
- **Instruction:**
  - **Face-to-face:**   **12%**
  - **Hybrid:**   **7%**
  - **Asynchronous:**   **26%**
  - **Synchronous:**   **37%**
  - **Clinicals, internships, non-lab research,**   **18%**
    independent and field studies

Healthy Together

- **Vaccination education for campus and public**

  o "COVID-19 Vaccination: Access, Awareness, and Acceptance," a Jan. 25 virtual panel discussion featuring Professor of Philosophy Mark Navin, public health experts and clergy

  o Attracted nearly 200 people

OAKLAND UNIVERSITY'S Centers for Civic Engagement, Public Humanities, and Religious Understanding

Present a panel on

COVID-19 Vaccination: Access, Awareness, Acceptance

Panelists:

Natasha Bagdasarian, MD, MPH
Senior Public Health Physician, Michigan Department of Health & Human Services

Russell Faust, MD
Medical Director for Oakland County

Nicholas Gilpin, DO
Chief Medical Officer at Beaumont Hospital, Grosse Pointe

Rev. Derrick McDonald, Pastor, Prospect Missionary Baptist Church

Moderated by Mark Navin, PhD, Professor and Chair of OU Philosophy Department

January 25, 2021
6:30 PM
Online
Free and open to the public

Registration required
Click here or visit
www.eventbrite.com/e/136184881647

# Campus Safety

OAKLAND UNIVERSITY

OU ranked 3rd Safest Campus in U.S.

- **Oakland University is the SAFEST CAMPUS in Michigan**

- **Ranking based on College Magazine's annual review – January 28, 2021**

- **Others:**

  (8) Purdue University; (7) Penn State University; (6) University of Wyoming; (5) Clemson University; (4) New York University; (2) Weber State University; and, (1) Brigham Young University

- **Special thanks to Student Affairs, Housing, OUPD**

Keeper of the Dream

- **Since 1993, OU has been honoring the legacy of Dr. Martin Luther King, Jr. by recognizing students for their exemplary commitment to social and racial justice.**

- **Nine Keeper of the Dream Award recipients each received a $5,000 scholarship in recognition of their strong citizenship, academic achievements and leadership.**

![Oakland University logo]
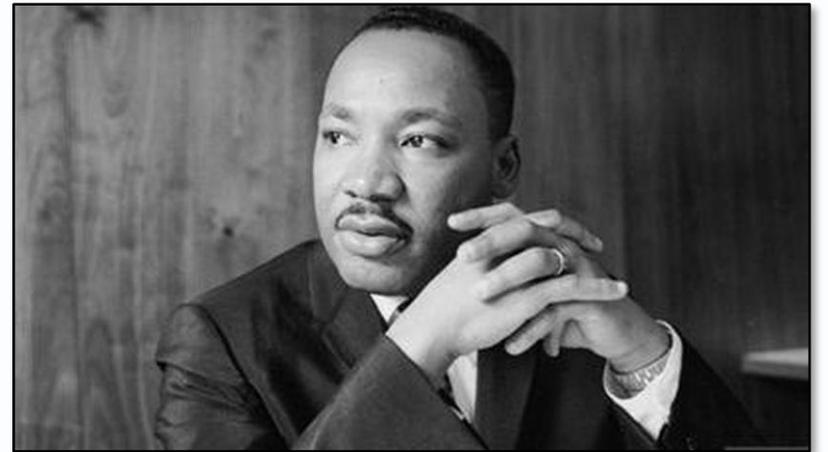
Keeper of the Dream

Adriana Colin-Diaz Rachel Jackson, Ja'Laaiyah Gordon Maryam Nissan

LaCaya Smith, Mariama Toure, Niajah Hood, Teyler Thompkins and Alaya Freeman

Thank You

Keeper of the Dream Sponsors

Vision sponsors

Rocket Mortgage

KeyBank

Sponsors
- Autoliv
- Comerica Bank
- Magna International
- Marshall Family Scholar Foundation
- Lynne & Lia McIntosh Scholarship
- Oakland University Alumni Association

- Meritor
- Willis Towers Watson
- Oakland University Credit Union
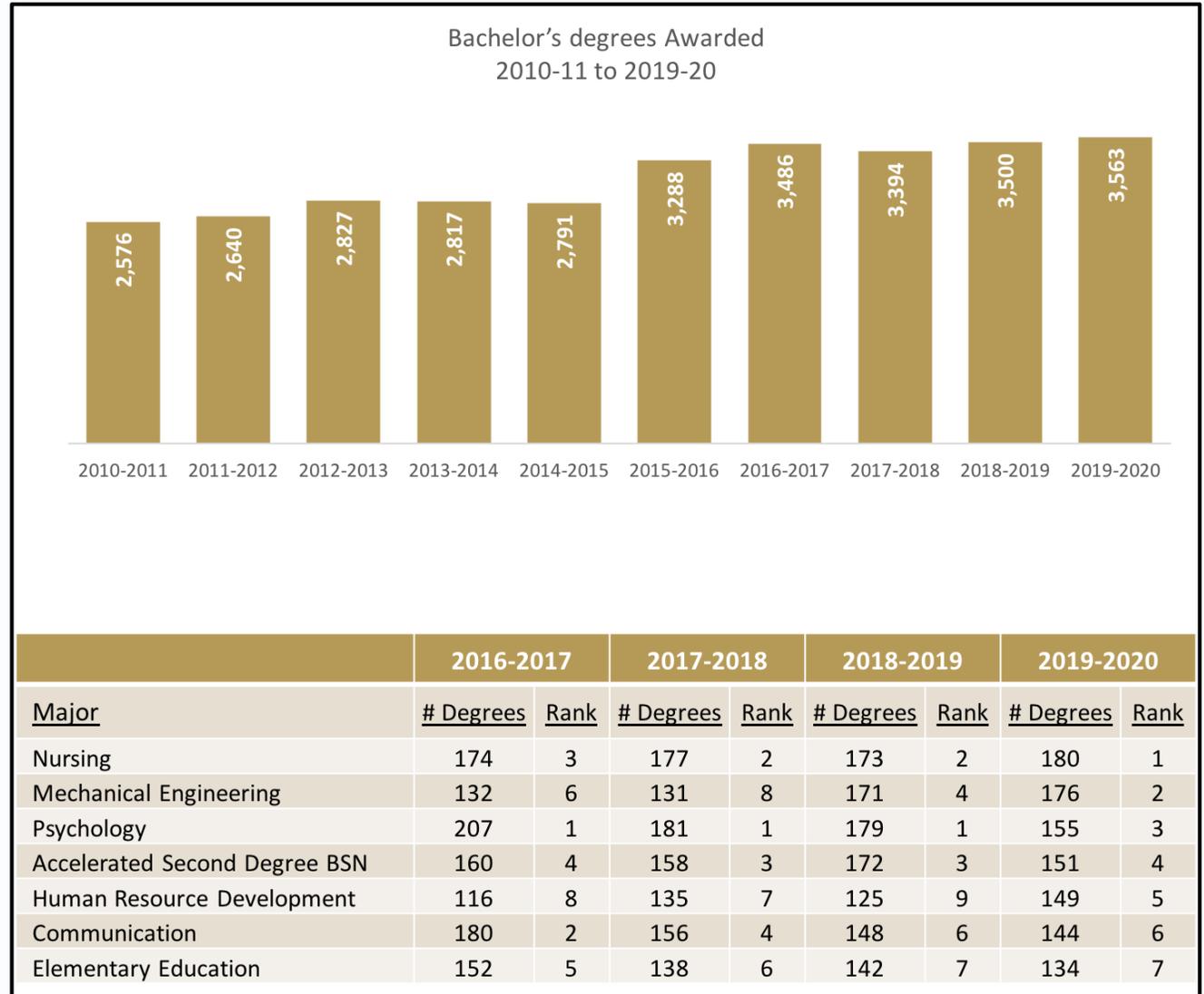- Alice Shotwell Gustafson Keeper of the Dream Endowment

South Foundation Hall

- **South Foundation Hall is closed and being prepared for construction.**

- **The $40M total project cost includes $30M in Michigan Capital Outlay funds.**

- **Construction includes renovation of 55,000 square feet and addition of 25,000 square feet designated for classes to teach STEM, health sciences, education, humanities and the arts.**

Bachelor's Degrees Awarded

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- **In 2019-2020, OU awarded a record 3,563 bachelor's degrees**

- **Top 3 degrees awarded:**
  - **Nursing**
  - **Mechanical Engineering**
  - **Psychology**

Bachelor's degrees Awarded 2010-11 to 2019-20

Year	Degrees
2010-2011	2,576
2011-2012	2,640
2012-2013	2,827
2013-2014	2,817
2014-2015	2,791
2015-2016	3,288
2016-2017	3,486
2017-2018	3,394
2018-2019	3,500
2019-2020	3,563

Major	2016-2017		2017-2018		2018-2019		2019-2020	
	# Degrees	Rank	# Degrees	Rank	# Degrees	Rank	# Degrees	Rank
Nursing	174	3	177	2	173	2	180	1
Mechanical Engineering	132	6	131	8	171	4	176	2
Psychology	207	1	181	1	179	1	155	3
Accelerated Second Degree BSN	160	4	158	3	172	3	151	4
Human Resource Development	116	8	135	7	125	9	149	5
Communication	180	2	156	4	148	6	144	6
Elementary Education	152	5	138	6	142	7	134	7

Frontline Workers Scholarship

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- **Award is an extension of the governor's Futures for Frontliners initiative**

- **Supports workers on the frontline of the COVID-19 pandemic who earned their associate's degree (from a state community college) and are pursuing their bachelor's degree.**

- **Eligible students will receive $2,500 over two years ($1,250/year or $625 per semester)**

- **Scholarship supports OU's mission and the Governor's postsecondary degree attainment goal of 60% by 2030.**

- **OU has received responses from many of the state's 28 community colleges**

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School of Engineering and
Computer Science

SECS Highlights

Departments (5)

- **Bioengineering**
- **Computer Science and Engineering**
- **Electrical and Computer Engineering**
- **Industrial and Systems Engineering**
- **Mechanical Engineering**

Academic Programs (23)

- **9 Bachelor's Degree Programs**
- **10 Master's Degree Programs**
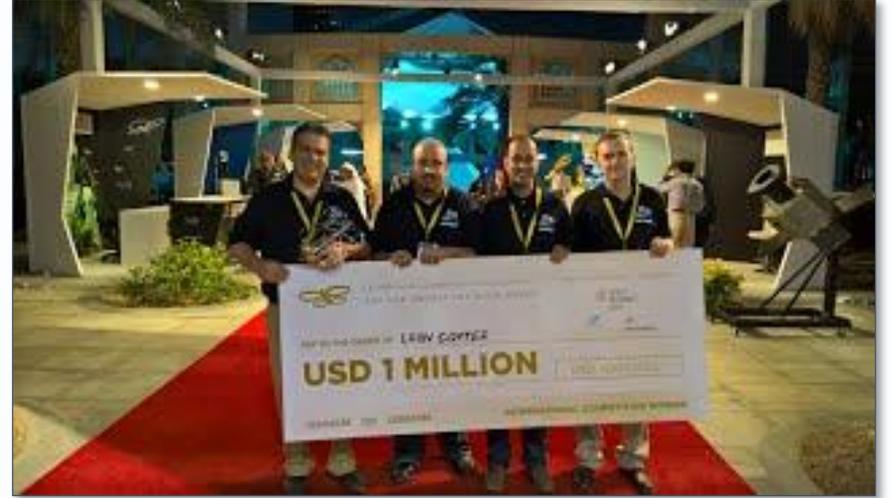- **4 Doctoral Degree Programs**
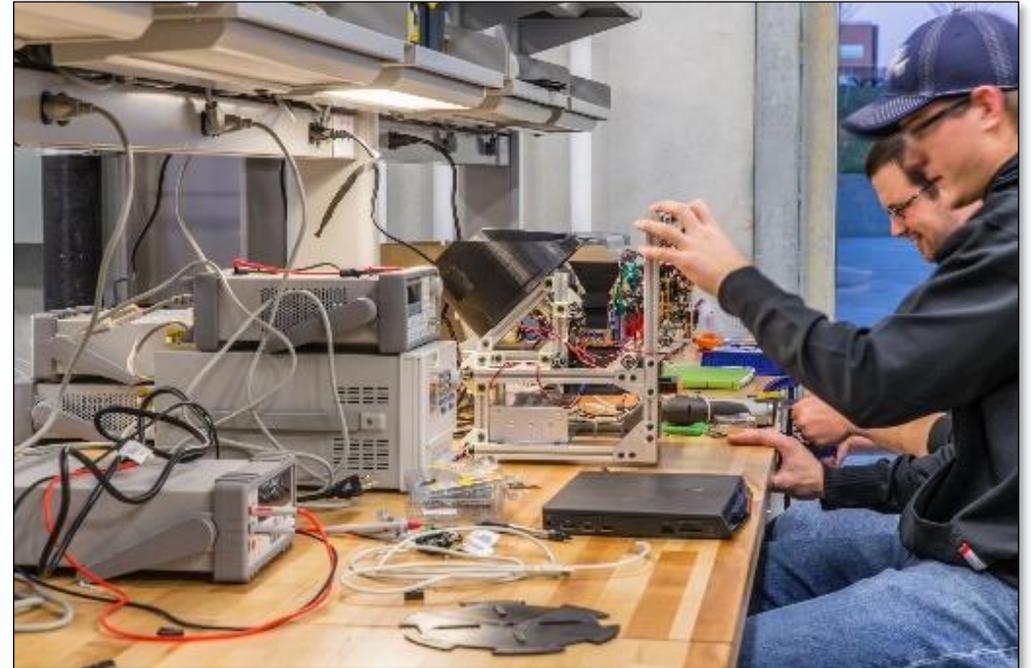
SECS Highlights

Enrollment (3,404)

- 2,600 undergraduate students
- 599 master's students
- 205 doctoral students

Faculty and staff (113)

- 87 Faculty
- 26 Staff

External Funding ($4,362,506)

- $2,371,735 Grants/Contracts
- $1,999,771 Gifts/Pledge

Student Success

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- **Peyton Schmid awarded** $10,000 scholarship for leadership in engineering. She is one of only 10 students worldwide to receive a 2020 Ford Alan Mulally Leadership in Engineering Scholarship.

- **Allison Broski** was recognized for the leading of the 1st Virtual Hackathon

- **Hanna Rau** - President of the Formula SAE Team assisted with producing over 500 face shields which was donated to our local hospitals

- **Mariama Toure** and HTech mentor **Rachel Jackson** were recognized for this year 2021 Keeper of the Dream Scholarship

- **HTech Transfer Student program** - Provides weekly peer to peer mentoring and one-on-one tutoring to any underrepresented or underserved transfer student studying in the areas of STEM.

    o 4 of 12 students who participate in the program received a 4.0 GPA last semester

    o 5 were a 3.0 GPA or higher

- **Industrial and Systems Engineering Dept. an Academic Partner with Siemens Digital Industries since 2011**
  - o **Partnership highlighted in Wall Street Journal (Nov. 9, 2020)**
  - o **ISE graduates in Industry 4.0 positions at FCA, GM, Brose, Siemens, 4D Systems, Williams Int'l, Emerson, Sandalwood, Engineering USA and others**
- **Matt Henry – former student and Industry 4.0 intern at FCA was a Fall 2020 graduate and is now a full-time FCA employee**
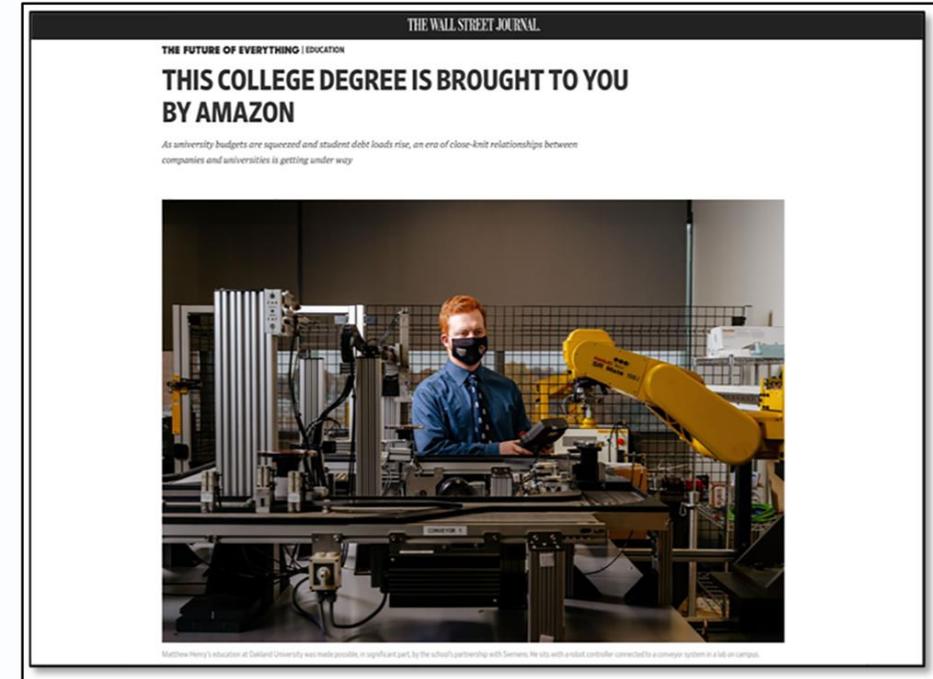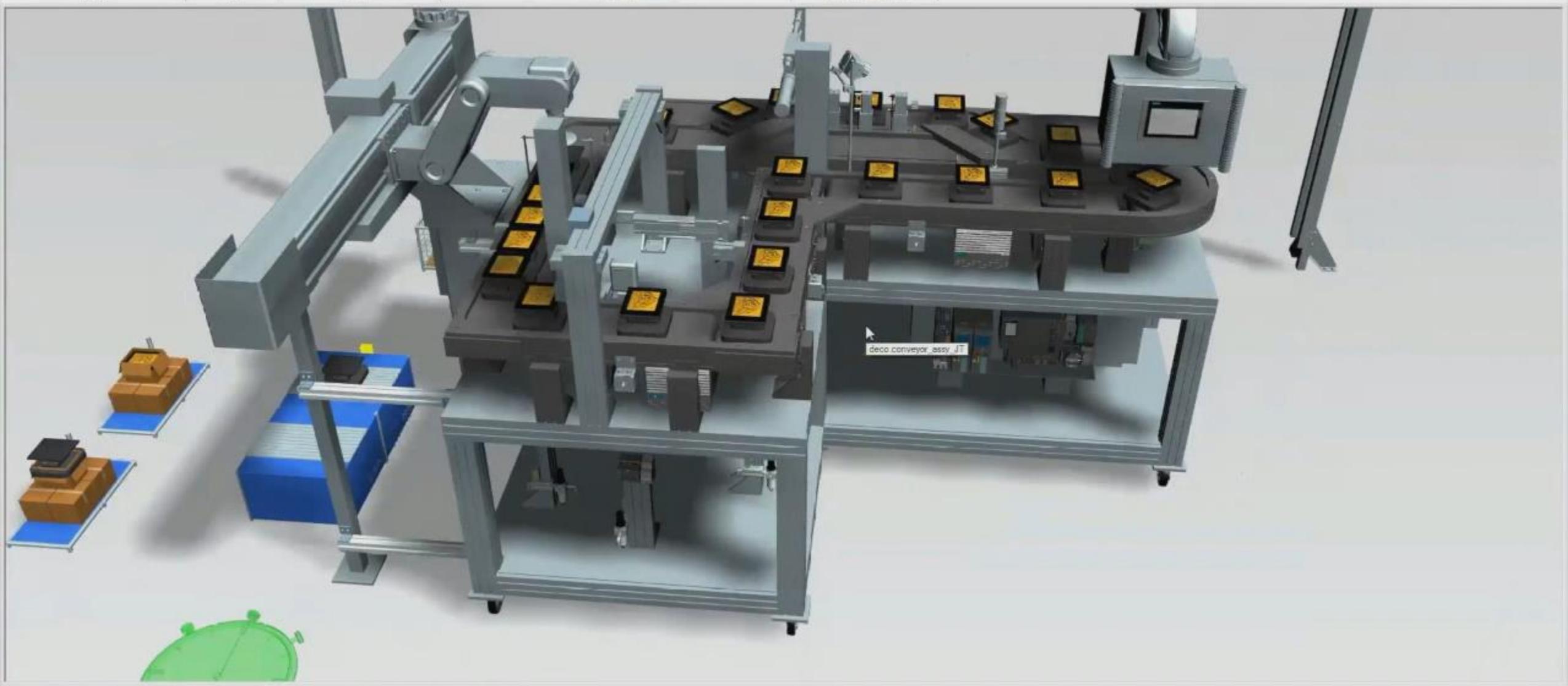
After Graduation

2019 - 2020 First-Destination Survey

92%
EMPLOYMENT RATE

$70,000
MEDIAN STARTING SALARY

85%
INTERNSHIP RATE

99%
EMPLOYED IN MICHIGAN

Program Recognition

25 Best Master's in Mechanical Engineering 2020

2020
★★★★★
BEST GRADUATE SCHOOLS
✓
gradreports

We ranked the top 25 colleges that offer a Master's Degree in Mechanical Engineering based on the median salary of this program's graduates one year after completion. The school with the highest median salary for this degree is Massachusetts Institute of Technology, at $108,700. Texas A&M University-College Station offers the lowest median debt on the list, at $19,454. Students who graduated with a Master's Degree in Mechanical Engineering from one of the top 25 schools had a median starting salary between $77,800 and $108,700.

Tuition, median salaries, and median debt were reported by the U.S. Department of Education. View our methodology for more details about these rankings or read more about the top-ranked schools.

💲 Salary and debt data reported by the U.S. Department of Education			
Rank	School	Annual Tuition ⓘ	Median Debt ⓘ	Median Salary ⓘ
#1	Massachusetts Institute of Technology	$52,892	Not Reported	$108,700
#2	Stanford University	$49,617	$32,792	$102,700
#3	Oakland University	$24,648	Not Reported	$90,900
#4	Ohio State University-Main Campus	$33,897	Not Reported	$87,100

Data is sourced from the U.S. Department of Education's College Scorecard and reflects median alumni earnings in the first year after graduation

Program Recognition

25 Best Colleges for Mechanical Engineering

2020
★★★★★
BEST COLLEGES
✓
gradreports

These are the best 25 colleges that offer a Bachelor's Degree in Mechanical Engineering, based on median salary one year after graduation. The top ranked school is SUNY Maritime College, with a median salary of $82,800. The school with the lowest median debt for this degree is Duke University, with a debt of $10,080. The rest of the schools on the list boast median starting salaries in the $70,300-$82,800 range for students who graduated with a Bachelor's Degree in Mechanical Engineering.

Tuition, median salaries, and median debt were reported by the U.S. Department of Education. View our methodology for more details about these rankings or read more about the top-ranked schools.

💲 Salary and debt data reported by the U.S. Department of Education			
Rank	**School**	**Annual Tuition** ⓘ	**Median Debt** ⓘ	**Median Salary** ⓘ
#1	SUNY Maritime College	$17,724	$26,399	$82,800
#2	Stanford University	$49,617	$19,500	$78,200
#3	California State University Maritime Academy	$18,936	$26,181	$77,600
#9	Oakland University	$23,873	$27,000	$73,500

Data is sourced from the U.S. Department of Education's College Scorecard and reflects median alumni earnings in the first year after graduation

25 Best Colleges for Electrical Engineering 2020

2020
★★★★★
BEST COLLEGES
⊘
gradreports

We ranked the top 25 schools by median salary one year after college for students who graduate with a Bachelor's Degree in Electrical Engineering. The top ranked school on this list is Massachusetts Institute of Technology, at a median salary of $116,600 and a median debt of $13,733. University of California - Berkeley also offers a starting salary of $116,600, but has a slightly higher median debt of $14,347. Cornell's median student debt is $12,445, the lowest of the schools ranked on this list. Schools on the list boast median starting salaries in the $72,300-$116,600 range.

Tuition, median salaries, and median debt were reported by the U.S. Department of Education. View our methodology for more details about these rankings or read more about the top-ranked schools.

💲 Salary and debt data reported by the U.S. Department of Education			
Rank	School	Annual Tuition ⓘ	Median Debt ⓘ	Median Salary ⓘ
#1	Massachusetts Institute of Technology	$49,892	$13,733	$116,600
#2	University of California - Berkeley	$42,184	$14,347	$116,600
#3	Carnegie Mellon University	$53,910	$23,771	$99,000
#10	Oakland University	$23,873	$29,167	$75,200

Data is sourced from the U.S. Department of Education's College Scorecard and reflects median alumni earnings in the first year after graduation

Research Highlights

Geoffrey Louie

- CRII: CHS: Healthcare Professionals Teaching Robots Communication Strategies for Effective Intervention Delivery. $174,883 for 2 years project. NSF CRII is a pre-Career program in CISE for junior faculty.

Julian Rrushi

- Advanced Research Projects Agency (DARPA) Young Faculty Award (YFA) Research Announcement (RA), DARPA-RA-19-01., $750K ($500K for 2 years)

Sergey Golovaschenko

- $290K sub-contract award from USCAR from LIGHTMAT program of Dept. of Energy involving Oakridge National Laboratory, USCAR as a consortium of Ford, GM and FCA.

Research Highlights

Sayed Nassar

- Basic research White paper on Structural Adhesive Bonding for the US Army Ground Vehicle Systems Center (GCSC) in response to their solicitation.

- 2-project total of $1.1 million

Laila Guessous

- REU Site: Automotive and Energy Research and Industrial Mentorship (AERIM) Program at Oakland University, National Science Foundation, co-PI: J. David Schall; Proposal Amount: $370,304

Other Noteworthy Item

- SECS Virtual Research Expo held November 20, 2020.
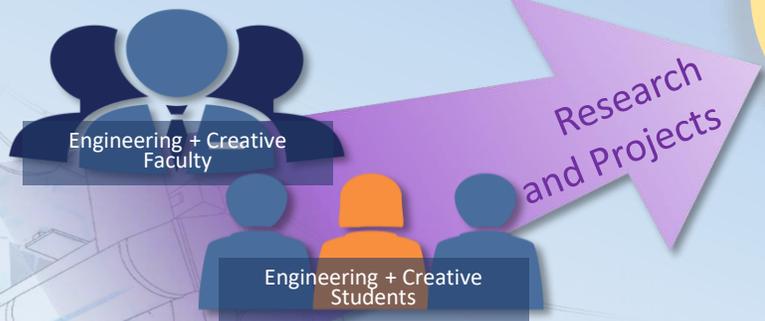
Augmented Reality Center (ARC)

OAKLAND UNIVERSITY™

Founding Members

Where Engineering and Art Intersect

Creative + Immersive Lab

AR / VR space for industry

Workshops to become ready for Industry 4.0

❖ $1 million 4-year operating budget provided by founding members
❖ Funded industrial projects provided by partner and member companies

Gaming

Manufacturing & Healthcare

5-year growth for AR/VR

Engineering + Creative Faculty

Engineering + Creative Students

Research and Projects

Funded Industrial Projects

EPIC GAMES

gm

U.S.ARMY

DEVCOM GROUND VEHICLE SYSTEMS CENTER

AM General

HIROTEC AMERICA

SIEMENS

MAGNA

KUKA

RAVE COMPUTER 30 YEARS

Continental The Future in Motion

MAHLE

FANUC

Microsoft

ABB

f

Potential Partners

COLLEGE for Creative STUDIES

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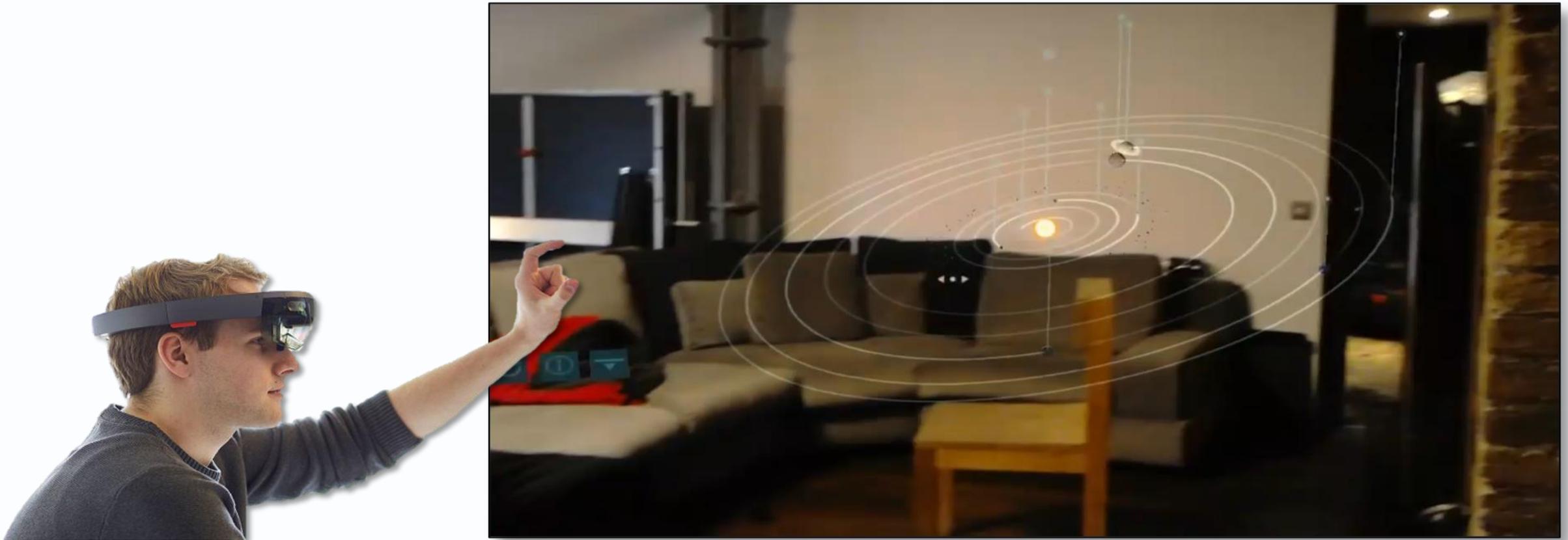# What is Augmented Reality?

VR – Fully artificial environment

Full immersion in virtual environment

What is Augmented Reality?

AR – Virtual objects overlaid on real-world environment

Interact with both the real world and virtual environment

What is Augmented Reality?

AR – the future of manufacturing where … information is displayed exactly where its needed

- **Interactive virtual model of objects**
- **Visual instructions on real objects for training and guidance**
- **Real-time data display on real world objects for monitoring**
- **Design assistance and enhanced customer experience**

Collaboration

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

- Computer vision and algorithms
- Object oriented programming
- Display and computer hardware
- Software templates and interfaces
- Gaming engine platform

Augmented Reality applications need:

- Computer Vision
- Hardware Technology
- Artificial Intelligence
- Creative Content

COLLEGE for Creative STUDIES

- User Interface (UI) / User Experience (UX) design
- Design thinking, discovery, and empathy training
- Design and content development
- Branding and graphic development
- User research and user testing

Community Engagement

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Engineering Society of Detroit

Meeting virtually biweekly (Since the start of the semester) to educate young girls of color in the areas of engineering exploration, problem solving, and computer science

Detroit Area Public College Engineering Program

Beginning February 6th, SECS Outreach will be working with Southfield and Detroit public middle schools to educate on mathematics and fundamental engineering.

International Technology Academy

Partnering with Pontiac ITA's Elementary, Middle, and High School to provide virtual hands-on learning in STEM

Public Schools Academy

Providing virtual STEM fields trips that will provide an interactive but virtual experience for students in K12

Rochester Community Schools Pre-College Programs

Partnering with area coordinator Aja Gore to provide presentations to pre-college students and educate them on the different areas of STEM .

Diversity, Equity and Inclusion

Focus K-12 populations:

- Underrepresented and underserved
- Women in STEM

HTech Program - Central purpose is helping underrepresented and underserved students through direct mentorship and tutoring

SECS Outreach - Receives funding from the annual golf outing that goes to scholarships for underrepresented minority students

Workplace Diversity - Ensuring the hiring of women and minorities to continue to thrive in innovation, decision making, and make certain of opportunities for underrepresented students.
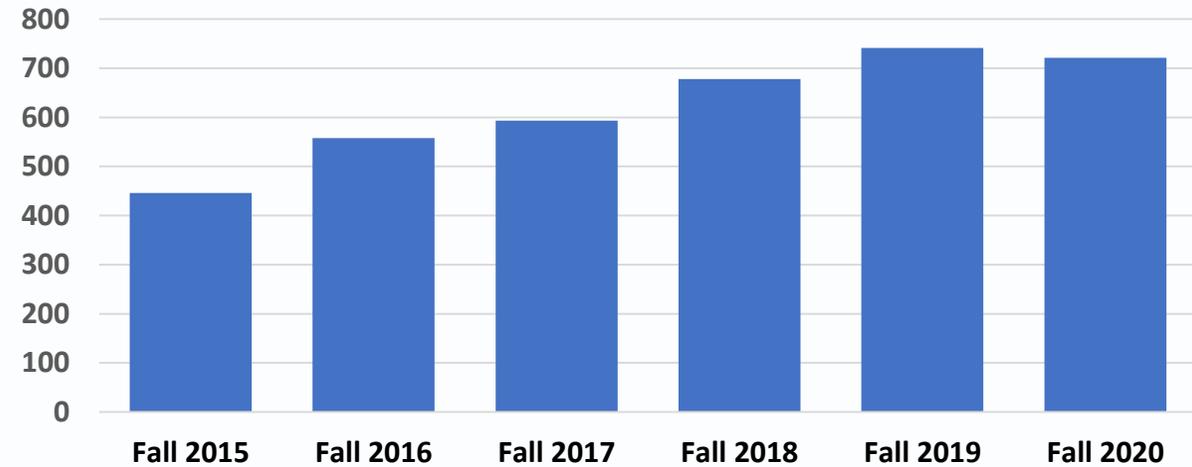
Diversity, Equity and Inclusion

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Engineering by Gender

	Female	% Female	Male	% Male	Total
Fall 2015	446	16.3%	2286	83.7%	2732
Fall 2016	558	17.9%	2555	82.1%	3113
Fall 2017	593	17.7%	2751	82.3%	3344
Fall 2018	678	18.9%	2916	81.1%	3594
Fall 2019	741	20.6%	2853	79.4%	3594
Fall 2020	721	21.2%	2683	78.8%	3404

Engineering URM Status

	URM	% URM	Non-URM	% Non-URM	Total
Fall 2015	227	8.3%	2505	91.7%	2732
Fall 2016	261	8.4%	2852	91.6%	3113
Fall 2017	289	8.6%	3055	91.4%	3344
Fall 2018	331	9.2%	3263	90.8%	3594
Fall 2019	344	9.6%	3250	90.4%	3594
Fall 2020	316	9.3%	3088	90.7%	3404

Engineering Female Enrollment

Engineering URM Enrollment
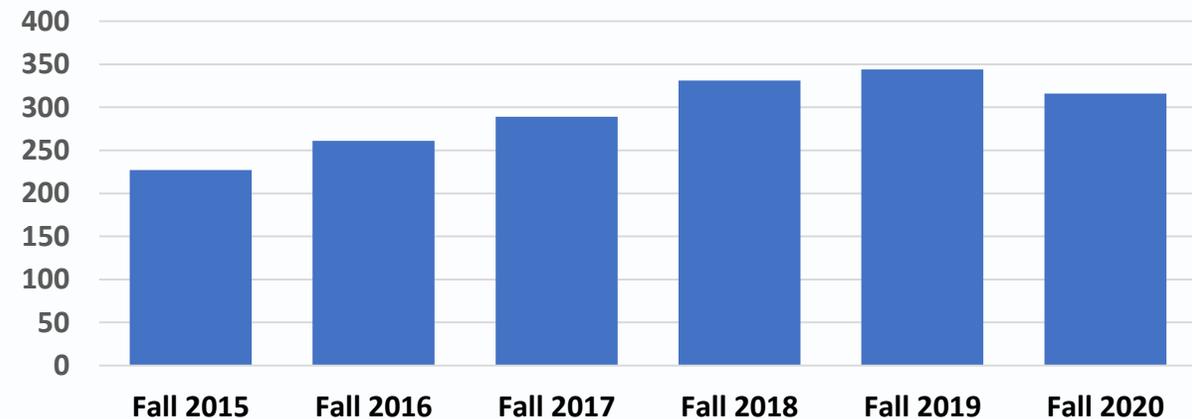
Update Topics

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- **Campaign Progress**
- **2020 All University Fund Drive**
- **University Leadership CY20 Giving**
- **Advisory Board CY20 Giving**
- **COVID Relief Fund**
- **OU Day of Giving Results**
- **Barry M Klein Center for Culture and Globalization**

Campaign Progress Tracking

| By Pillar		Goal	Campaign to Date	% to Goal
Student Success	$	52,500,000	$37,661,506	72%
Teaching, Research and Discovery		37,500,000	19,355,042	52%
Community Collaboration		15,000,000	9,415,742	63%
Campus Expansion		15,000,000	7,143,593	48%
Innovative Programs		30,000,000	14,322,240	48%
Total	$	150,000,000	$87,898,123	59%

Through January 31st, 2021

Campaign Progress To Date

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Campaign Progress
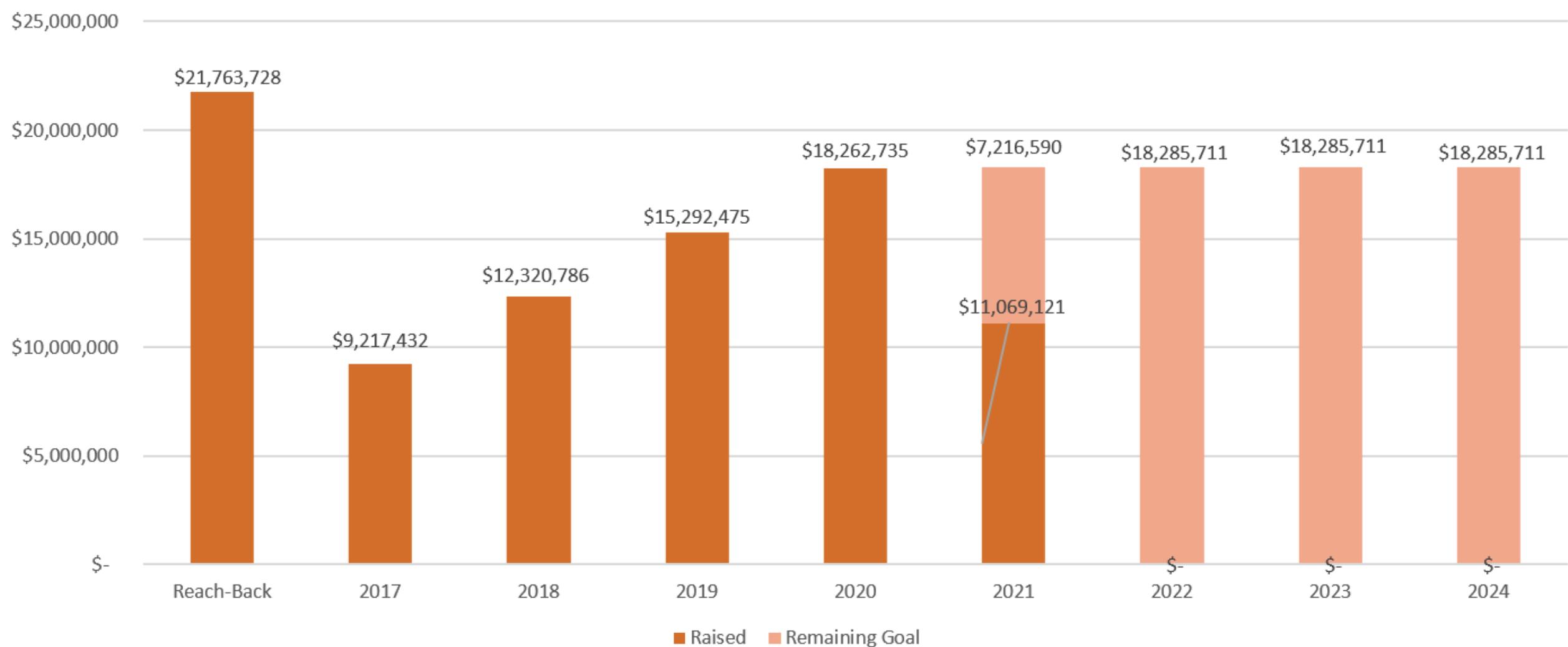
AUFD Results and Top Funds

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Dollars	Donors	
FY21	**$667,910**	1,107
FY20	**$510,252**	1,164
Change	*+31%*	*-5%*

Top Funds	Donors
1) Grizzlies Food Pantry	117
2) Meadow Brook Hall	88
3) Golden Grizzlies Champion Fund	80
4) Student Emergency Fund	77
5) OUWB Scholarship Fund	73

AUFD New Endowments

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- **The Edna Gottlieb Shapiro Endowed Scholarship Fund (SEHS)**
- **George Preisinger Scholarship Fund (Student Affairs)**
- **The Nightingale Legacy Endowed Scholarship Fund (SON)**
- **The Connie and Tom Barr Classroom Library Endowment Fund (SEHS)**
- **The Graduate Student Scholarship in FAJRI (SECS)**
- **The FAJRI Scholarship for Excellence (SECS)**
- **The Bella Rozencweig Hirsch Endowment for Biomedical Ethics (OUWB)**
- **The Rabbi Richard G. and Bella Hirsch Faculty Endowment for Racial and Social Justice (Academic Affairs)**

The Rabbi Richard G. and Bella Hirsch Faculty Endowment for Racial and Social Justice (Academic Affairs)

Rabbi Richard G. and Bella Hirsch

Advisory Board CY20 Giving

15 Advisory Boards

CY20 Board Participation - 84% (CY19 - 81%)

Top Board Performance

Black Alumni Chapter

Board of Trustees

Golden Grizzlies Champions Club

Graduate School

Honors College

Library

OU Alumni Association

SEHS

Young Alumni Chapter

Advisory Board CY20 Giving

OAKLAND UNIVERSITY™

COVID-19 Relief Fund Totals

Date: 5-Feb-21

Fund Description	Unique Donors	Total $ Raised
30004-OU, Health Emergency Program Gift Fund	108	$ 17,092
30109-OU, OU Counseling Center	5	$ 1,360
30317-OU, OUWBSOM Emergency Fund	39	$ 7,952
30388-OU, Student Emergency Fund	500	$ 70,610
30400-OU, Employee Hardship Fund	40	$ 37,585
30500-OU, Community Engagement Gift Fund	23	$ 29,045
30800-OU, Golden Grizzlies Graduate Program	5	$ 630
31081-OU, Grizzly Food Pantry	450	$ 33,732
31508-OU, School of Nursing Scholarships	67	$ 5,100
32524-OU, Future Heroes Scholarship Fund	405	$ 63,308
DCOVHLT-OU, Dorms for Region's Healthcare Professionals	16	$ 58,525
DCOVID-OU, COVID-19 Student Relief Fund	322	$ 74,014
DCOVSH-OU, COVID-19 Student Scholarship	1	$ 20
DFNHN-OU, OUWB Financial Hardship Fund	1	$ 54,000
DHSSCR-OU, SHS Student COVID Relief Fund	2	$ 58
GRAND TOTALS	**1,984**	**$ 453,032**

OU Day of Giving

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- **First-ever Giving Day at OU**

- **February Groundhog Day**

- **OU Credit Union $50k Match Challenge**

- **Bonus challenges and additional matches**

Thank you!

♥ 703 DONORS

🎁 856 GIFTS

$ 455,945 RAISED

OAKLAND UNIVERSITY
DAY OF giving

Barry M Klein Center Funding

OAKLAND UNIVERSITY™

The Barry M. Klein Center for Culture and Globalization (CAS)

- **Endowment Will Support:**
  - **Visiting Chair**
  - **Distinguished Faculty Awards**
  - **Student Research Program**
  - **Support Fund**
- **Funded w/ $5,000,000 Estate Gift**
- **Hosted January Virtual Celebration**

Thank You